	Application No. Applicant(s)		
Notice of Allowability	10/654,767	CAMPBELL, CHRISTIAI	N X
	Examiner	Art Unit	
	Karl E. Group	1755	
The MAILING DATE of this communication appe			
All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIO of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr GHTS. This application is	in this application. If not included nunication will be mailed in due cour	rse. THIS
1. This communication is responsive to <u>12-09-05</u> .			
2. The allowed claim(s) is/are <u>1-5,7-17,21-23 and 28-37</u> .	•		
3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:	der 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents have 	been received.		
Certified copies of the priority documents have	been received in Applicat	ion No	
Copies of the certified copies of the priority doc	ruments have been receiv	ed in this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:	•		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the require	ments
4. A SUBSTITUTE OATH OR DECLARATION must be submininformal PATENT APPLICATION (PTO-152) which give			CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.		
(a) \square including changes required by the Notice of Draftsperse	on's Patent Drawing Revie	ew (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1.6 each sheet. Replacement sheet(s) should be labeled as such in the			k) of
6. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F			the
Attachment(s)			
1. ☑ Notice of References Cited (PTO-892)	5. Notice of I	nformal Patent Application (PTO-15	2)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08		./Mail Date s Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner	s Statement of Reasons for Allowan	ce
of Biological Material	9. 🗌 Other	<u>_</u> .	
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Maire on February 1, 2006.

The application has been amended as follows:

Claim 1, line 2, after "first particles" insert - - - comprising a network of microcracks - - - and change, "binding matrix material" to - - -binding matrix comprising a ceramic material - - -, line 7, after "first particles" insert - - -, wherein the first particles comprise ceria and the second particles comprise mullite - - -.

Claims 7-11, 14-16 change "claim 6" to - - - claim 1 - - -.

Claim 21, line 3, after "first particles" insert - - - comprising a network of microcracks - - -, line 4, change, "binding matrix material" to - - -binding matrix comprising a ceramic material - -, line 11, after "aggregate material", insert - - -, wherein the first particles comprise ceria and the second particles comprise mullite - - -.

Rewrite claim 28 as:

- - -28. A material comprising a sintered aggregation of ceria particles and mullite particles within a binding matrix <u>comprising a ceramic material</u>, <u>wherein</u> the ceria particles comprise a network of microcracks. - - -

Cancel claims 6,18-20,24-27.

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2. The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or fairly suggest the claimed material of a matrix including a ceramic included therein ceria and mullite particle wherein at least the ceria particles include a network of microcracks. Ueda et al, 5,322,823 is cited as prior art of interest where the dispersed particles of TiN develop microcracks, column 13, lines 36-43.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl E. Group whose telephone number is 571-272-1368. The examiner can normally be reached on M-F (6:30-4:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Karl É Group Primary Examiner Art Unit 1755